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FISH RICHARDSON

Attorney's Docket No.: 06618-457001 / CIT2986

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Daniel P. Weitekamp Art Unit : 2856
Serial No.: 09/576,654 Examiner : Thanh X. Luu
Filed : May 22, 2000
Title : MEASUREMENTS OF ELECTROMAGNETIC PROPERTIES AND
INTERACTIONS BASED ON RADIATION-EXCITED
POLARIZATIONS

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DEC 02 2002

Commissioner for Patents
Washington, D.C. 20231

TECHNOLOGY CENTER 2800

RESPONSE

In response to the action mailed July 30, 2002, please
amend the application as follows:

In the specification:

Please replace the paragraph beginning at page 10, line 22
with the following rewritten paragraph:

-- Equation (1) can have AC components if the time
dependence of P_s includes a field at a frequency (ω_s) different
from the frequency (ω_p) of the field responsible for the field
gradient. This is the basis of proposals for ultrasensitive
spectroscopy of trapped ions where the AC force is at the
difference between two applied rf frequencies and is matched to
one of the frequencies of the trapped ion motion. U. S. Patent
No. 4,982,088 to Weitekamp et al., and Pizarro and Weitekamp,

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December 2, 2002

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